

What is claimed is:

- 1 1. A service reservation system adapted to accept from users
2 requests for reservations for utilizing services supplied by
3 using resources, comprising:
4 a reservation condition management element adapted to
5 manage the accepted reservation of services as reservation
6 conditions;
7 a first acceptance element adapted to accept service
8 booking requests from users;
9 an importance degree determining element adapted to
10 determine in accordance with preset specifications a degree
11 of importance of the service booking requests accepted by the
12 first acceptance element; and
13 a reservation taking element adapted, when a load level,
14 which is determined depending upon the reservation condition
15 managed by the reservation condition management element, of
16 resources used for supplying object services relative to the
17 service booking requests accepted by the first acceptance
18 element is higher than a predetermined level, to deny the
19 acceptance of the service booking requests if the degree of
20 importance of the service booking requests determined by the
21 importance degree determining element is lower than a
22 predetermined importance degree determined by a predetermined
23 standard, and to permit the acceptance of the service booking

24 requests if the degree of importance of the service booking
25 requests determined by the importance degree determining
26 element is not lower than the predetermined importance degree.

1 2. A service reservation system according to claim 1, wherein
2 said predetermined standard is a standard at which the
3 predetermined importance degree increases in proportion to the
4 load level of resources in a period of time of execution of
5 object service relative to the reservation booking request.

1 3. A service reservation system adapted to accept from users
2 requests for reservations for utilizing services supplied by
3 using resources, comprising:

4 a reservation condition management element adapted to
5 manage accepted reservations of services as reservation
6 condition;

7 a first acceptance element adapted to accept service
8 booking requests from users,

9 a substitute reservation plan preparation element
10 adapted to prepare at least one substitute reservation plan
11 which is obtained by at least partially altering the contents
12 of reservation in the reservation booking requests accepted
13 by the first acceptance element, in such a manner that a general
14 resources utilization efficiency increases in accordance with
15 the contents of the reservation and a load level of resources

16 used for supplying of the object services relative to the
17 reservation booking requests, said load level being determined
18 by the reservation condition managed by the reservation
19 condition management element;

20 a substitute reservation plan presentation element
21 adapted to present said at least one substitute reservation
22 plan which is prepared by the substitute reservation plan
23 preparation element, to the users;

24 a second acceptance element adapted to accept the user's
25 selection of said at least one substitute reservation plan;
26 and

27 a reservation element adapted to accept as reservation
28 the substitute reservation plan whose selection is accepted
29 by the second acceptance element.

1 4. A service reservation system according to claim 1, further
2 comprising:

3 a substitute reservation plan preparing element adapted
4 to prepare, when the acceptance of the reservation in the
5 reservation booking request is denied by the reservation taking
6 element, at least one substitute reservation plan which is
7 obtained by at least partially altering the contents of
8 reservation in the reservation booking requests accepted by
9 the first acceptance element, in such a manner that a general
10 resource utilization efficiency increases in accordance with

11 the contents of the reservation and a load level of resources
12 used for supplying of the object services relative to the
13 reservation booking request, said load level being determined
14 by the reservation condition managed by the reservation
15 condition management element;

16 a substitute reservation plan presentation element
17 adapted to present said at least one substitute reservation
18 plan which is prepared by the substitute reservation plan
19 preparation element, to the users; and

20 a second acceptance element adapted to accept the user's
21 selection of the substitute reservation plan, wherein
22 said reservation taking element accepts as reservation
23 the substitute reservation plan whose selection is accepted
24 by the second selection accepting element.

Wanted

1 5. A service reservation system according to claim 1, further
2 comprising:

3 a substitute reservation preparation element adapted
4 to prepare, when the acceptance of the reservation in the
5 reservation booking request is allowed by the reservation taking
6 element, at least one substitute reservation plan which is
7 obtained by at least partially altering the contents of
8 reservation in the reservation booking request accepted by the
9 first acceptance element, in such a manner that a general
10 resource utilization efficiency increases in accordance with

11 the contents of the reservation and a load level of resources
12 used for the supplying of the object services relative to the
13 reservation booking request, said load level being determined
14 by the reservation condition management element;

15 a substitute reservation plan presentation element
16 adapted to present said at least one substitute reservation
17 plan which is prepared by the substitute reservation plan
18 preparation element, to the users; and

19 a second acceptance element adapted to accept the user's
20 selection of the substitute reservation plan or the reservation
21 allowed by the reservation taking element; wherein

22 said reservation taking element accepts the substitute
23 reservation plan as reservation when its selection is accepted
24 by the second acceptance element; and said reservation taking
25 element accepts when its selection is accepted by the second
26 acceptance element.

1 6. A service supplying system adapted to supply services by
2 using resources, comprising the service reservation system
3 defined in claim 1, wherein said resources supplying services
4 in accordance with the reservation accepted by the service
5 reservation system.

1 7. A service supplying system according to claim 6, wherein:
2 said resources include a transmission and exchange

3 network adapted to supply transmission and exchange service
4 to the users, and a data processing unit adapted to supply the
5 users with information processing and accumulating services
6 via said transmission and exchange network.

1 8. A service reservation taking method for receiving from users
2 the reservation for utilizing services supplied by using
3 resources, comprising:

4 a first step of accepting service reservation booking
5 requests from the users;

6 a second step of determining a degree of importance of
7 the accepted service booking requests in accordance with
8 preset specifications; and

9 a third step of, when a load level, which is determined
10 depending upon the reservation condition, of resources used
11 for supplying object services relative to the service booking
12 requests is higher than a predetermined level, denying the
13 acceptance of the service booking requests if the degree of
14 importance of the service booking requests is lower than a
15 predetermined importance degree determined by a predetermined
16 standard, and permitting the acceptance of the service booking
17 requests if the degree of importance of the service booking
18 requests is not lower than the predetermined importance degree.

1 9. A service reservation taking method for receiving from users

2 the reservation for utilizing services supplied by using
3 resources, comprising:

4 a first step of accepting service reservation booking
5 requests from the users;

6 a second step of preparing at least one substitute
7 reservation plan which is obtained by at least partially altering
8 the contents of reservation in the accepted reservation booking
9 requests, in such a manner that a general resources utilization
10 efficiency increases in accordance with the contents of the
11 reservation and a load level of resources used for supplying
12 of the object services relative to the reservation condition;

13 a third step of presenting said at least one substitute
14 reservation plan to the users;

15 a fourth step of accepting the user's selection of said
16 at least one substitute reservation plan; and

17 a fifth step of accepting as reservation the substitute
18 reservation plan selected by the users.

1 10. A recording medium storing therein a program read and
2 executed by an electronic computer,

3 said program comprising a program for constituting on
4 the electronic computer a service reservation system adapted
5 to accept from users reservation for the utilization of services
6 supplied by using resources,

7 said service reservation system including:

8 a reservation condition management element adapted to
9 manage the accepted reservation of services as reservation
10 conditions;

11 a first acceptance adapted to accept service booking
12 requests from users;

13 an importance degree determining element adapted to
14 determine in accordance with preset specifications a degree
15 of importance of the service booking requests accepted by the
16 first acceptance element; and

17 a reservation taking element adapted to, when a load level,
18 which is determined depending upon the reservation condition
19 managed by the reservation condition management element, of
20 resources used for supplying object services relative to the
21 service booking requests accepted by the first acceptance
22 element is higher than a predetermined level, deny the acceptance
23 of the service booking requests if the degree of importance
24 of the service booking requests determined by the importance
25 degree determining element is lower than a predetermined
26 importance degree determined by a predetermined standard and
27 permit the acceptance of the service booking requests if the
28 degree of importance of the service booking requests determined
29 by the importance degree determining element is not lower than
30 the predetermined importance degree.

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1 11. A recording medium storing therein a program read and
2 executed by an electronic computer,

3 said program comprising a program for constituting on
4 the electronic computer a service reservation system adapted
5 to accept from users reservation for the utilization of services
6 supplied by using resources,

7 said service reservation system including:

8 a reservation condition management element adapted to
9 manage accepted reservations of services as reservation
10 condition;

11 a first acceptance element adapted to accept service
12 booking requests from users,

13 a substitute reservation plan preparation element
14 adapted to prepare at least one substitute reservation plan
15 which is obtained by at least partially altering the contents
16 of reservation in the reservation booking requests accepted
17 by the first acceptance element, in such a manner that a general
18 resources utilization efficiency increases in accordance with
19 the contents of the reservation and a load level of resources
20 used for supplying of the object services relative to the
21 reservation booking requests, said load level being determined
22 by the reservation condition managed by the reservation
23 condition management element;

24 a substitute reservation plan presentation element

25 adapted to present said at least one substitute reservation
26 plan which is prepared by the substitute reservation plan
27 preparation element, to the users;
28 a second acceptance element adapted to accept the user's
29 selection of said at least one substitute reservation plan;
30 and
31 a reservation element adapted to accept as reservation
32 the substitute reservation plan whose selection is accepted
33 by the second acceptance element.

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